IFWO

RAW SEQUENCE LISTING   DATE: 08/02/2004
PATENT APPLICATION: US/10/812,737 TIME: 11:25:10

Input Set : A:\PTO.LM.TXT
Output Set: N:\CRF4\08022004\J812737.raw

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   3 <110> APPLICANT: ChondroGene
   4       Liew, Choong-Chin
   6 <120> TITLE OF INVENTION: Method for the Detection of Gene Transcripts in Blood and
Uses
   7       Thereof
   9 <130> FILE REFERENCE: xx
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/812,737
C--> 11 <141> CURRENT FILING DATE: 2004-03-30
  11 <150> PRIOR APPLICATION NUMBER: US
  12 <151> PRIOR FILING DATE: 2000-01-04
  14 <150> PRIOR APPLICATION NUMBER: US 60/115,125
  15 <151> PRIOR FILING DATE: 1999-01-06
  17 <160> NUMBER OF SEQ ID NOS: 112
  19 <170> SOFTWARE: PatentIn version 3.2
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  22 <211> LENGTH: 110
  23 <212> TYPE: DNA
  24 <213> ORGANISM: Human
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P.6-8

ENTERED

RAW SEQUENCE LISTING   DATE: 08/02/2004
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Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\08022004\J812737.raw**

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PATENT APPLICATION: US/10/812,737   TIME: 11:25:10

            Input Set : **A:\PTO.LM.TXT**
            Output Set: **N:\CRF4\08022004\J812737.raw**

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139 <221> NAME/KEY: misc_feature
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            Input Set : A:\PTO.LM.TXT
            Output Set: N:\CRF4\08022004\J812737.raw

245 <222> LOCATION: (328)..(329)
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260 <222> LOCATION: (366)..(366)
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301 <223> OTHER INFORMATION: n is a, c, g, or t
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305 <222> LOCATION: (426)..(426)

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/02/2004
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Input Set : **A:\PTO.LM.TXT**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 16,19,25,38,40,42,44,64,65,66,70,71,81,86,89,117,121,123,135
Seq#:2; N Pos. 143,177,179,181,193,194,209,210,215,217,221,228,233,236,243
Seq#:2; N Pos. 251,252,253,254,270,272,274,275,283,292,293,299,303,307,312
Seq#:2; N Pos. 319,324,325,328,329,342,345,366,377,382,391,395,400,412,413
Seq#:2; N Pos. 422,424,426,433,439,442,452,460,463,471,495,500,504,516
Seq#:5; N Pos. 13,14,16,20,21,25,26,27,28,42,52,55,57,59,63,65,68,72,74,77
Seq#:5; N Pos. 91,102,117,127,128,169,172,192,203,243,244,248,249,253,283
Seq#:5; N Pos. 288,299,318,327,334,348,359,360
Seq#:6; N Pos. 475,556,559,585,606,644,671,693,695,714,742,744,756,765,768
Seq#:6; N Pos. 808,815,823,830,837
Seq#:10; N Pos. 433,600,615,626,645,661
Seq#:14; N Pos. 6,15,37,38,47,56,57,94,127,155,157
Seq#:16; N Pos. 5,15,39,47,52,69,154,207,217
Seq#:17; N Pos. 18,19,27,47,66,76,82,108,133,162,210,260,276
Seq#:19; N Pos. 17,40,59,76,107,165,189,216,221,230
Seq#:21; N Pos. 17,23,28,36,41,44,53,59,62,67,70,71,74,76,79,83,84,86,97
Seq#:22; N Pos. 2,17,37,52,53,56,77,85,89,96
Seq#:23; N Pos. 17,19,27,28,29,37,38,46,49,65,72
Seq#:24; N Pos. 5,13,71,88,91,109,157,177,199,207,211
Seq#:26; N Pos. 299,333,353,410,411,460,474,479
Seq#:27; N Pos. 348,422,435,476,490
Seq#:28; N Pos. 18,47,59,74,138,174,176,211
Seq#:29; N Pos. 1,2,12,29,34
Seq#:30; N Pos. 3,4,5,6,8,13,15,20,27,32,33,40,49,50,57,63,67,69,76,78,87
Seq#:30; N Pos. 89
Seq#:31; N Pos. 12,26,46,49,55,60,63,69,70,73,79,92,96
Seq#:32; N Pos. 2,7,27,34,57,63,64,67,73,75,76,77,78,80,90,96,97,98
Seq#:33; N Pos. 5,12,28,32,38,44,57,68,76,82,92
Seq#:34; N Pos. 3,21,27,28,38,47,50,53,61,73,78,83,85,97
Seq#:35; N Pos. 21,22,28,32,65,67,68,70,77,83,92
Seq#:36; N Pos. 4,8,29,43,44,46,57,59,84,98,115,117,118
Seq#:37; N Pos. 7,10,53,61,65,66,72,74,75,89,94,100,107,126,141
Seq#:38; N Pos. 2,10,61,63,72,79
Seq#:39; N Pos. 5,7,8,10,15,16,20,24,71
Seq#:40; N Pos. 80,91
Seq#:42; N Pos. 14,31,36,63,73,93,98
Seq#:44; N Pos. 2,11,27,28,34,38,39,41,49,50,61,62,67,68,76,79,80,85,89,93
Seq#:45; N Pos. 8,24,33,34,47,48,58,63,68,71,73,77,88,95,96
Seq#:46; N Pos. 74
Seq#:47; N Pos. 7,8,17,23,33,42,47,48,52,55,60,62,66,70,71,74,84,86,87,96
Seq#:47; N Pos. 99,100
Seq#:48; N Pos. 5,6,33,35,36,42,46,48,55,59,69,81,87,91,94,97
Seq#:49; N Pos. 20,38,164,178,201,211,274,305,340,346,386,387,405,433,446
Seq#:50; N Pos. 5,6,13,18,22,39,45,48,54,65,70,72,80,83,90,94,96,98,102,104

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Input Set : **A:\PTO.LM.TXT**
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Seq#:50; N Pos.  296,300,305,308,311,319,322,326,328,334,335,338,339,347,352
Seq#:50; N Pos.  358,361,367,382,389,395,410,413,414,418,425,436,443
Seq#:51; N Pos.  19,59,87,119,203,215,274,296,309,353,425,426,427,431,451
Seq#:51; N Pos.  470,472,478
Seq#:52; N Pos.  13,14,17,20,22,27,29,31,36,43,46,58,59,74,78,81,85,87,88,90
Seq#:52; N Pos.  91,92,95,96,105,107,109,115,116,117,120,123,148,154,155,156
Seq#:52; N Pos.  167,169,170,171,172,179,183,185,186,187,194,200,201,202,203
Seq#:52; N Pos.  205,235,236,242,244,246,247,250,303,305,318,327,331,335,336
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Seq#:55; N Pos.  5,32,40,60,62,76,107,155
Seq#:56; N Pos.  4
Seq#:69; N Pos.  356
Seq#:70; N Pos.  26
Seq#:71; N Pos.  5,19,29,38,42,45,49,61,77,79,88,90,100,110
Seq#:72; N Pos.  151
Seq#:73; N Pos.  7,16,233
Seq#:74; N Pos.  31,32,57
Seq#:76; N Pos.  11,35,37,38,43,56,67,71,75
Seq#:77; N Pos.  6,11
Seq#:78; N Pos.  11,20,24,31,38,53,61,62,66,83,84,92,109,115,146,153,166
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Seq#:81; N Pos.  22,33,34,39
Seq#:82; N Pos.  13,16,33,46,47,78,82,83,121
Seq#:83; N Pos.  8,36
Seq#:84; N Pos.  30
Seq#:89; N Pos.  37,47,108,112,129,134,152,168,196,239
Seq#:91; N Pos.  326,338,339,344
Seq#:92; N Pos.  32,34
Seq#:94; N Pos.  5,25,38,39,44,46,59,66,70,74,80,82,83,84,86,90,91,92,112
Seq#:94; N Pos.  113,117,126,129,133,134,135,136,152,156,157,162,164,165,174
Seq#:94; N Pos.  178,181,185,186,187,190,191,194,206,227,231,235,244,247,251
Seq#:94; N Pos.  255,258,260,261,263,270,273,274,275,276,285,287,291,292,302
Seq#:94; N Pos.  305,306,311,318,319,321,327,328,329,333,348,349,352,357,363
Seq#:94; N Pos.  366,367,369,371,376,377,385,390,398,401,405,420,429,437,440
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Seq#:94; N Pos.  502,506
Seq#:95; N Pos.  11,24,40,48,51,71,80,83,91,95,99,111,115,116,118,121,123
Seq#:95; N Pos.  124,126,129,131,133,135,148,153,170,173,175,177,192,195,196
Seq#:95; N Pos.  198,200,201,211,212,219,222,223,226,231,240,243,244,249,255
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Seq#:95; N Pos.  384,391,398,400
Seq#:96; N Pos.  171,622,628,642,661,668,694,709,710,735,751,752,763,778,782
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/02/2004
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Input Set : **A:\PTO.LM.TXT**
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Seq#:96; N Pos. 786,788,798
Seq#:98; N Pos. 17
Seq#:99; N Pos. 8,361
Seq#:100; N Pos. 8,39,50,56,71,72,97,110,177
Seq#:101; N Pos. 121

VERIFICATION SUMMARY   DATE: 08/02/2004
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:240
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480
L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:180
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:540
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:660
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:720
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780
L:833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:420
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:540
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600
L:841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60
L:945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120
L:1023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
L:1027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:120
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60
L:1103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
L:1105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:1190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:60
L:1194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:120
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:180
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:1310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:1365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60
L:1417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
```

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Input Set : **A:\PTO.LM.TXT**
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L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60
L:1488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120
L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
L:1562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300
L:1566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360
L:1568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:420
L:1615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:300
L:1619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
L:1621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:480
L:1671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60
L:1675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
L:1707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:60
L:1876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:60
L:1948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:60
L:2015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:2017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60
L:2092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60
L:2149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60
L:2216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:2218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:60
L:2295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:2297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60
L:2299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:120
L:2339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:2341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:60
L:2386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:2388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:60
L:2410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:2474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:2476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:60
L:2571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:2573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:60
L:2643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:60
L:2662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:60
L:2757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60
L:2839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
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L:2841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:60
L:2921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120
L:2927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180
L:2929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240
L:2931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300
L:2933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:360
L:2935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:420
L:3295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:3297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60
L:3299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120
L:3301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:180
L:3303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:240
L:3305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:300
L:3307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:360
L:3309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:420
L:3399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:3401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
L:3405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180
L:3407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240
L:3409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:300
L:3413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:420
L:3877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:3879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60
L:3881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:120
L:3883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:180
L:3885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:240
L:3887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:300
L:3889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:360
L:3891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:420
L:3893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:480
L:3895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:540
L:3897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:600
L:3899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:660
L:3961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:3963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:60
L:4038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:4040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:60
L:4042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
L:4057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:4316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300
L:4333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:4429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:4431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60
L:4452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:120
L:4487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:4493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180
L:4523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:4594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
```

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L:4596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:60
L:4626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:4719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:4721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:60
L:4723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:120
L:4771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:4773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:60
L:4855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:4857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:60
L:4859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:120
L:4861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:180
L:4886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:4945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:4947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:60
L:4949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:120
L:4979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:4998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:5144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:5146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:60
L:5148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:120
L:5150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:180
L:5204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:300
L:5226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:5648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:5650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60
L:5652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120
L:5654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:180
L:5656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:240
L:5658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:300
L:5660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:360
L:5662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:420
L:5664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:480
L:5959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:5961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:60
L:5963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:120
L:5965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:180
L:5967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:240
L:5969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:300
L:5971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:360
L:6065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:120
L:6081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:600
L:6083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:660
L:6085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:720
L:6087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:780
L:6121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:6143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:6155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:360
L:6209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:6211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:60
```

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L:6213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:120
L:6240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:120